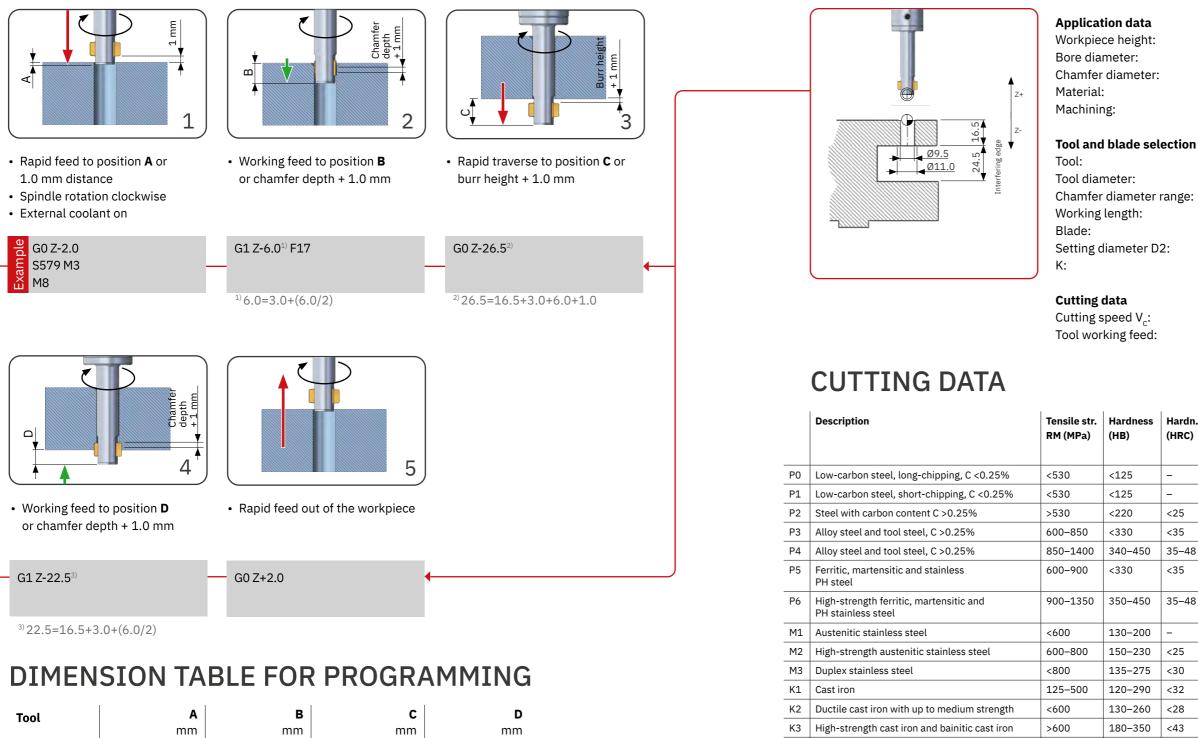
DEFA PROCESS STEPS



Tool	A	В	C	D
	mm	mm	mm	mm
DEFA 4–6	0.8	3.4	6.0	3.4
DEFA 6-10	0.8	1.8+(0.5*K ¹⁾)	1.8+K ¹⁾ +1.0	1.8+(0.5*K ¹⁾)
DEFA 9–24	2.0	3.0+(0.5*K ²⁾)	3.0+K ²⁾ +1.0	3.0+(0.5*K ²⁾)

¹⁾ Dimensions for K, see tool table page 114 ²⁾ Dimensions for K, see tool table page 116



The cutting data listed are guide values! For materials that are difficult to machine or uneven bore edges, we recommend applying cutting speeds that are at the lower end of the range.

* coating for blades

S4 Titanium and titanium alloys

N1 Wrought aluminium alloys

Aluminium alloys with low Si content

N3 Aluminium alloys with high Si content

Copper, brass and zinc base

S1 Iron-based heat-resistant alloys

S2 Cobalt-based heat-resistant alloys

S3 | Nickel-based heat-resistant alloys

N2

N4

DEFA

APPLICATION AND PROGRAMMING EXAMPLE

ight:	16.5 mm
r:	Ø9.5 mm
eter:	Ø11.0 mm
	Titanium
	both bore edges

	GH-S-D-1747 (DEFA 9-24)
r:	Ø8.8 mm
neter range:	Ø10.2–11.4 mm
th:	30.0 mm (note interfering edge)
	GH-S-M-3912 (carbide, TiN coated)
eter D2:	D+2S = 11.0 mm + 2(0.4) = 11.8 mm
	6.0 mm (see page 116)

IV _c :	10–20 m/min.
feed:	0.02-0.04 mm/rev.

Tensile str. RM (MPa)	Hardness (HB)	Hardn. (HRC)	DF geometry		DR geometry			
			VC	FZ	B *	VC	FZ	B *
<530	<125	-	40-70	0.02-0.06	т	40-70	0.05-0.1	А
<530	<125	-	40-70	0.02-0.06	Т	40-70	0.05-0.1	А
>530	<220	<25	40-70	0.02-0.06	Т	40-70	0.05-0.1	А
600-850	<330	<35	20-50	0.02-0.06	Т	20-50	0.05-0.1	А
850-1400	340-450	35–48	20-50	0.02-0.06	Т	20-50	0.05-0.1	А
600-900	<330	<35	15–30	0.02-0.04	Т	15-30	0.02-0.06	А
900-1350	350-450	35–48	15–30	0.02-0.04	Т	15-30	0.02-0.06	A
<600	130-200	-	10-20	0.02-0.04	т	10-20	0.02-0.06	A
600-800	150-230	<25	10-20	0.02-0.04	т	10-20	0.02-0.06	Α
<800	135–275	<30	10-20	0.02-0.04	т	10-20	0.02-0.06	Α
125-500	120-290	<32	50-90	0.02-0.06	Т	50-90	0.05-0.1	А
<600	130-260	<28	40-70	0.02-0.06	Т	40-70	0.05-0.1	А
>600	180-350	<43	40-70	0.02-0.06	т	40-70	0.05-0.1	А
-	-	-	-	-		-	-	
-	-	-	-	-		-	-	
-	-	-	-	-		-	-	
-	-	-	-	-		-	-	
500-1200	160-260	25–48	10-20	0.02-0.04	т	10-20	0.02-0.06	А
1000-1450	250-450	25-48	10-20	0.02-0.04	т	10-20	0.02-0.06	А
600-1700	160-450	<48	10-20	0.02-0.04	т	10-20	0.02-0.06	А
900–1600	300-400	33–48	10-20	0.02-0.04	Т	10-20	0.02-0.06	А